

Title (en)

Auxiliary oxygen burners technique in glass melting cross-fired regenerative furnaces.

Title (de)

Verfahren zum Schmelzen von Glas in einem mit Querbrenner sowie mit Sauerstoff befeuerten Zusatzbrenner bestücktem Regerativofen.

Title (fr)

Procédé de fusion du verre dans un four du type à régénération et à brûleurs transversaux équipé de brûleurs auxiliaires à oxygène.

Publication

**EP 0532825 A2 19930324 (EN)**

Application

**EP 92104217 A 19920311**

Priority

US 76144891 A 19910918

Abstract (en)

The invention relates to the employment of at least one oxygen-fuel burner in a particular manner in glass melting cross-fired regenerative furnaces. By operating oxygen-fuel burners positioned in particular places in a cross-fired regenerative furnace in an appropriate manner, the glass melting can be accomplished without disrupting the flame momentum of the air-fuel burners, thereby improving the efficiency of the glass melting and increasing the production of the glass products. <IMAGE>

IPC 1-7

**C03B 5/235**

IPC 8 full level

**C03B 5/237** (2006.01); **C03B 5/235** (2006.01); **F23D 14/32** (2006.01)

CPC (source: EP KR US)

**C03B 5/04** (2013.01 - KR); **C03B 5/2353** (2013.01 - EP US); **F23D 14/32** (2013.01 - EP US); **F23L 7/00** (2013.01 - KR); **Y02P 40/50** (2015.11 - EP US)

Cited by

EP1094273A1; CN102459102A; EP0633228A3; US5560758A; EP0650934A1; FR2711981A1; US5655464A; US9221704B2; WO2010144286A1; EP1920192B1

Designated contracting state (EPC)

BE DE ES FR IT NL

DOCDB simple family (publication)

**US 5147438 A 19920915**; BR 9200828 A 19930413; CA 2062671 A1 19930319; CA 2062671 C 19960402; DE 69204790 D1 19951019; DE 69204790 T2 19960404; EP 0532825 A2 19930324; EP 0532825 A3 19930421; EP 0532825 B1 19950913; ES 2077269 T3 19951116; JP H0597444 A 19930420; KR 0141469 B1 19980701; KR 930006372 A 19930421; MX 9201066 A 19930301

DOCDB simple family (application)

**US 76144891 A 19910918**; BR 9200828 A 19920311; CA 2062671 A 19920311; DE 69204790 T 19920311; EP 92104217 A 19920311; ES 92104217 T 19920311; JP 8659192 A 19920311; KR 920003945 A 19920311; MX 9201066 A 19920311